



Docket No.: 102282-0015
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tao Wu et al.

Application No.: 10/776,690

Confirmation No.: 3833

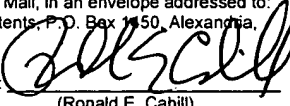
Filed: February 11, 2004

Art Unit: 2882

For: TOMOSYNTHESIS IMAGING SYSTEM
AND METHOD

Examiner: David V. Bruce

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: December 22, 2005 Signature: 
(Ronald E. Cahill)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT (IDS)

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed after the mailing date of an Office Action that closed prosecution on the merits, but on or before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark

Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

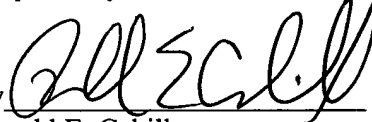
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56 (b).

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 141449, under Order No. 102282-0015. A duplicate copy of this paper is enclosed.

Dated: December 22, 2005

Respectfully submitted,

By 

Ronald E. Cahill

Registration No.: 38,403

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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/776,690-Conf. #3833
				Filing Date	February 11, 2004
				First Named Inventor	Tao Wu
				Art Unit	2882
				Examiner Name	David V. Bruce
				Attorney Docket Number	102282-0015
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		6,002,739	12-14-1999	Heumann	
		6,256,370 B1	07-03-2001	Yavuz	
		6,292,530 B1	09-18-2001	Yavus et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ CITE NO.: Those application(s) which are marked with an single asterisk () next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BROWNE, J.A. et al., "Developments with Maximum Likelihood X-Ray Computed Tomography," <i>IEEE Trans. on Med. Imaging</i> 11(1):40-52 (1992).	
		CHLEWICKI, W. et al., "Cone Based 3D Reconstruction: A FDK-SART Comparison For Limited Number of Projections," Dept. of Physics, Univ. of Patras, Greece.	
		LANGE, K. et al., "A Theoretical Study of Some Maximum Likelihood Algorithms for Emission and Transmission Tomography," <i>IEEE Trans. on Med. Imaging</i> MI-6(2):106-114 (1987).	
		NIKLASON, L.T. et al., "Digital Tomosynthesis in Breast Imaging," <i>Radiology</i> 205(2):399-406 (1997).	
		OLLINGER, J.M., "Maximum Likelihood Reconstruction of Transmission Images in Emission Computed Tomography via the EM Algorithm," <i>IEEE Trans. on Med. Imaging</i> 13(1):89-101 (1994).	
		POLITTE, D.G. et al., "The Use of Constraints to Eliminate Artifacts in Maximum-Likelihood Image Estimation for Emission Tomography," <i>IEEE Trans. on Nuclear Sci.</i> 35(1):608-610 (1988).	
		SURYANARAYANAN, S. et al., "Comparison of Tomosynthesis Methods Used with Digital Mammography," <i>Acad. Radiol.</i> 7:1085-1097 (2000).	
		ROCKMORE, A.J. et al., "A Maximum Likelihood Approach to Transmission Image Reconstruction from Projections," <i>IEEE Trans. on Nuclear Sci.</i> NS-24(3):1929-1935 (1977).	
		WU, T., "Three-Dimensional Mammography Reconstruction Using Low-Dose Projection Images," Dissertation Brandeis Univ. DAI-B 63/03 p. 1417 (Sept. 2002).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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PTO/SB/17 (12-04v2)

Approved for use through 7/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).		Complete if Known	
FEE TRANSMITTAL For FY 2005		Application Number	10/776,690-Conf. #3833
		Filing Date	February 11, 2004
		First Named Inventor	Tao Wu
		Examiner Name	David V. Bruce
		Art Unit	2882
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Attorney Docket No.	102282-0015
TOTAL AMOUNT OF PAYMENT		(\$)	180.00

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: 141449 Deposit Account Name: Nutter McClennen & Fish LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☐ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
- =	x	=
Fee Paid (\$)		
Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
Indep. Claims	Extra Claims	Fee (\$)
- =	x	=
Fee Paid (\$)		

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/50	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	38,403
Name (Print/Type)	Ronald E. Cahill	Telephone	(617) 439-2000
		Date	December 22, 2005

Fee Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: December 22, 2005

Signature: (Ronald E. Cahill)